



Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
Victor, Colorado 80860

P 719.689.2977
F 719.689.3254
newmont.com

December 21, 2023

SENT VIA EMAIL

Mr. Elliott Russell
Environmental Protection Specialist
Colorado Department of Natural Resources
Division of Reclamation, Mining, and Safety
Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

Re: Monthly Grassy Valley November 2023 Report Submission, December 21, 2023

Dear Mr. Russell,

Newmont Corporation's Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report as required by the Division of Reclamation Mining and Safety beginning in the fourth quarter 2021. The monthly monitoring report has been expanded in response to the Corrective Actions Required; Grassy Valley GVMW-25 Monthly Sampling August 2022 issued by the Division on September 30, 2022. The report includes data as outlined in the Grassy Valley Monthly Monitoring Plan submitted as TR-132 and approved by the Division on March 10, 2023. Attachment A contains data from monitoring well GVMW-25, GVMW-26A, GVMW-26B, surface water monitoring location GV-06, and Seep 1 & Seep 2, for the month of November, 2023.

Should you require further information please do not hesitate to contact Antonio Matarrese at 719.851.4185 or antonio.matarrese@newmont.com or myself at 719.851.4048 or katie.blake@newmont.com

Sincerely,

DocuSigned by:

5A3D013B629844B...

Katie Blake

Sustainability & External Relations Manager
Cripple Creek and Victor Gold Mining Company

EC: P. Lennberg
M. Cunningham
K. Blake
J. Gonzalez
A. Matarrese

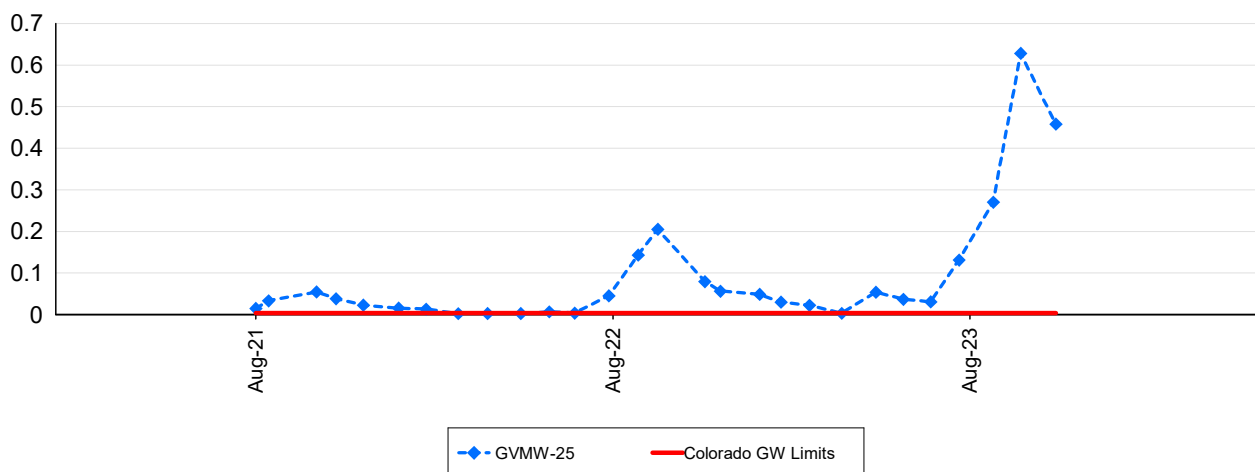
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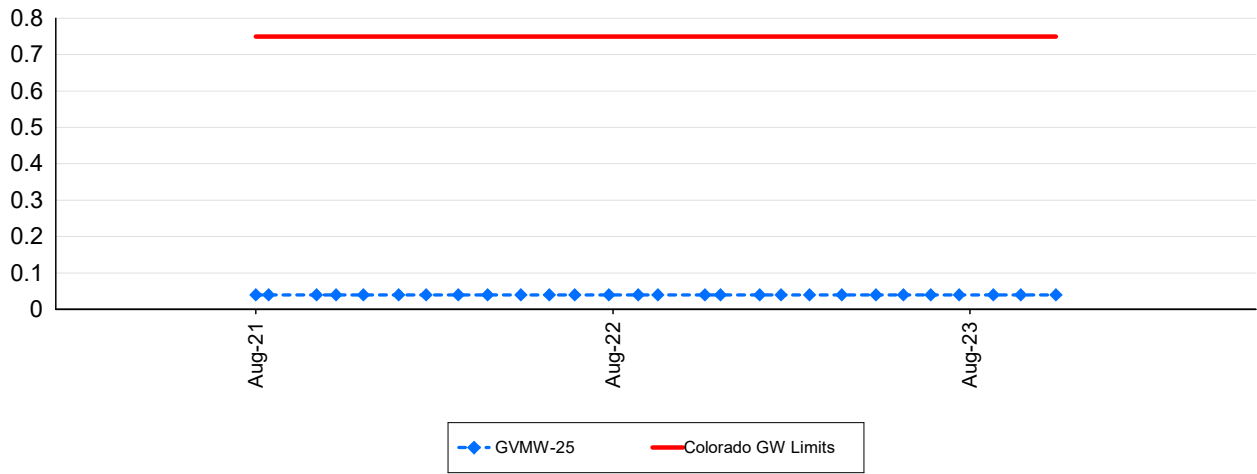
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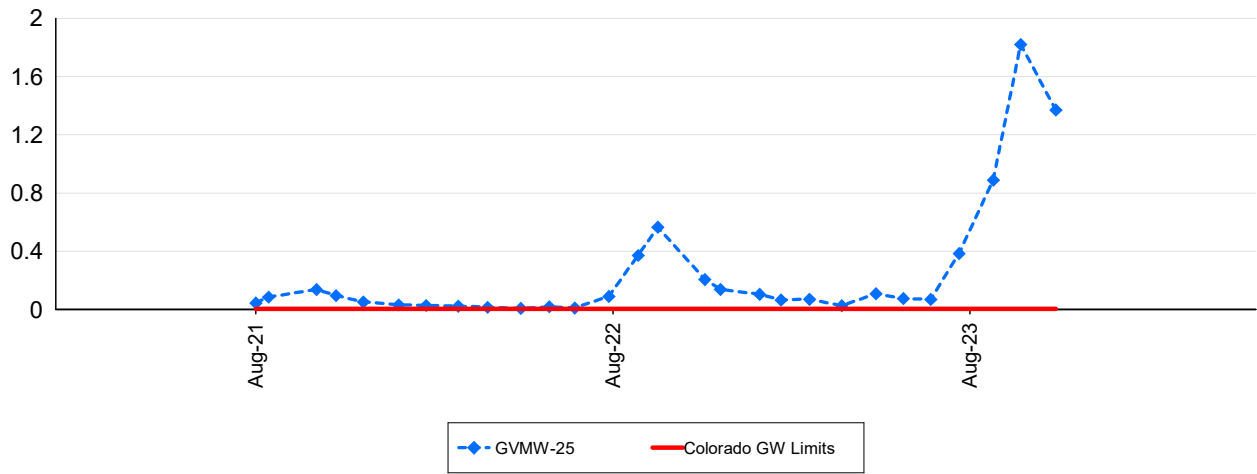
Attachment A



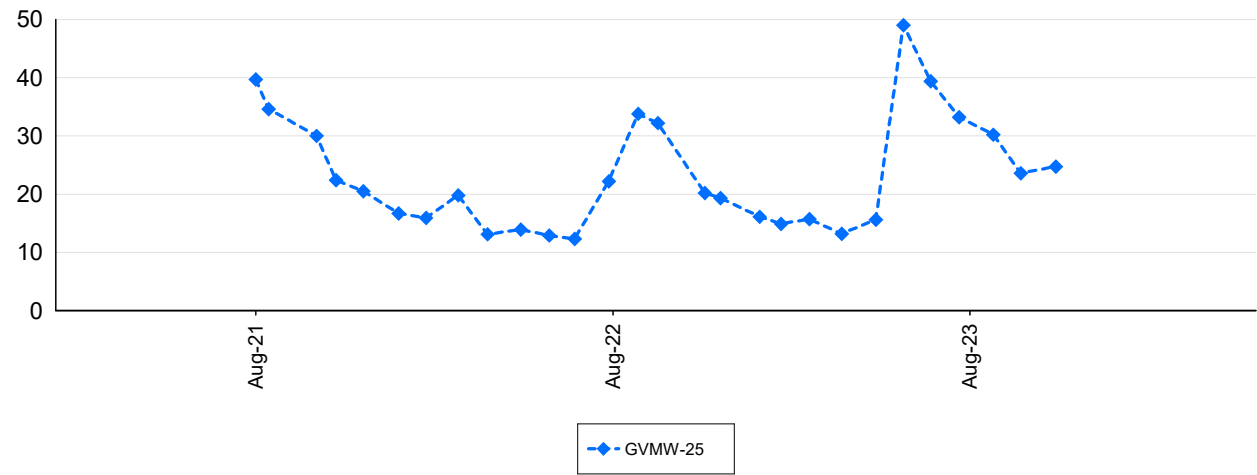
: Boron - Dissolved (mg/L)

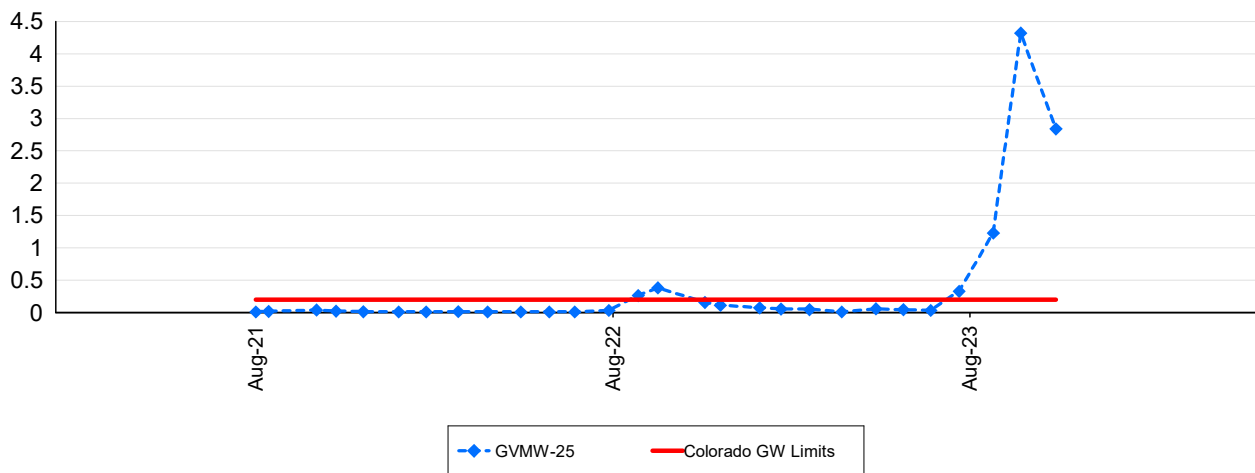


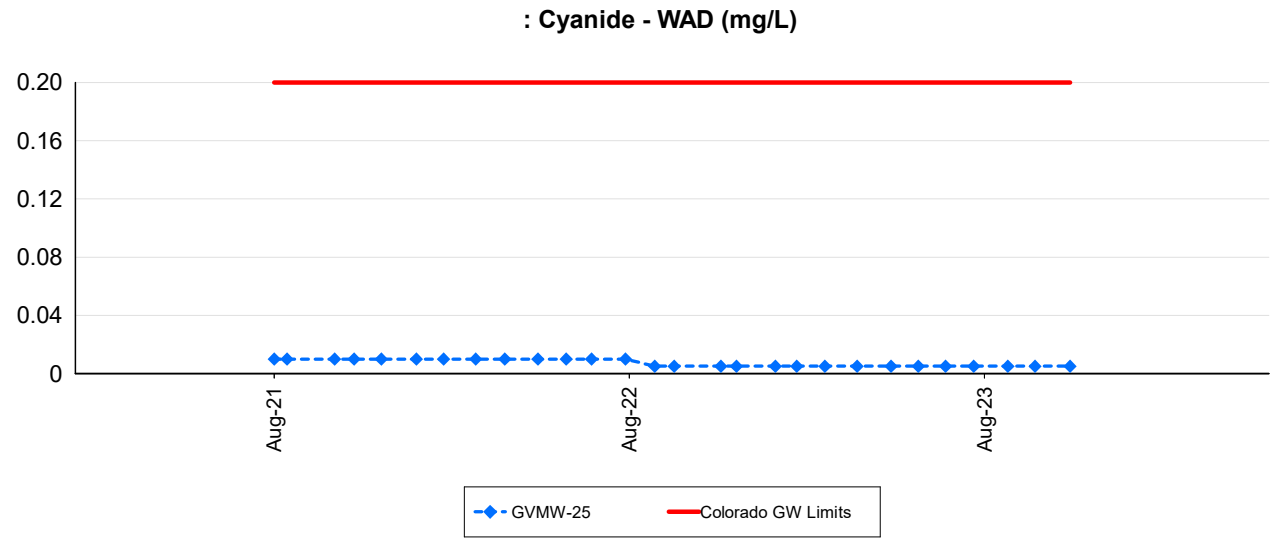
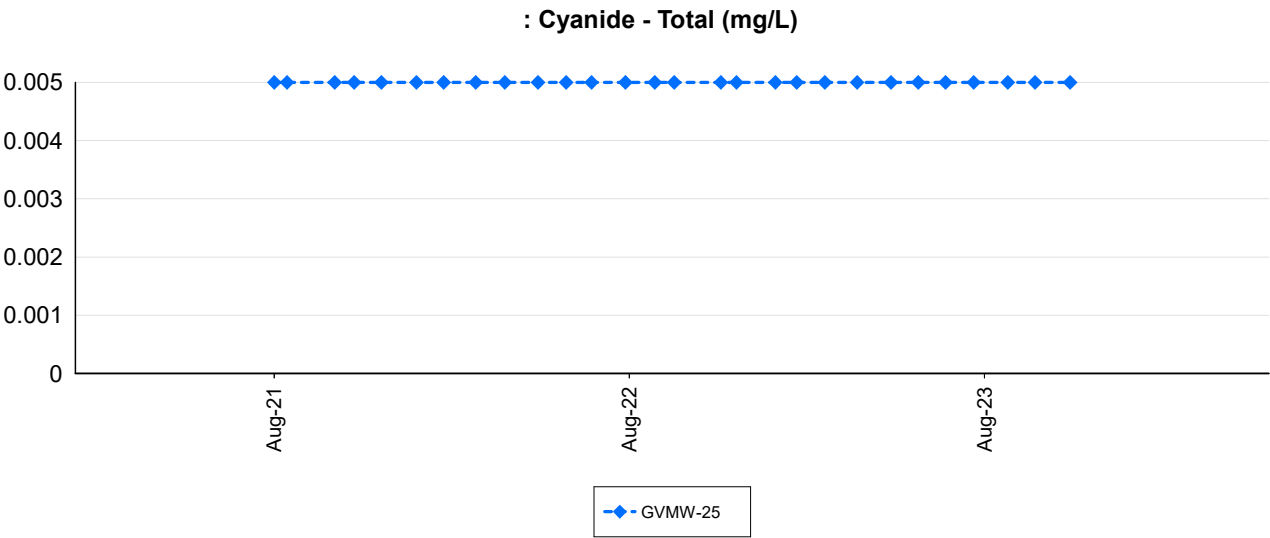
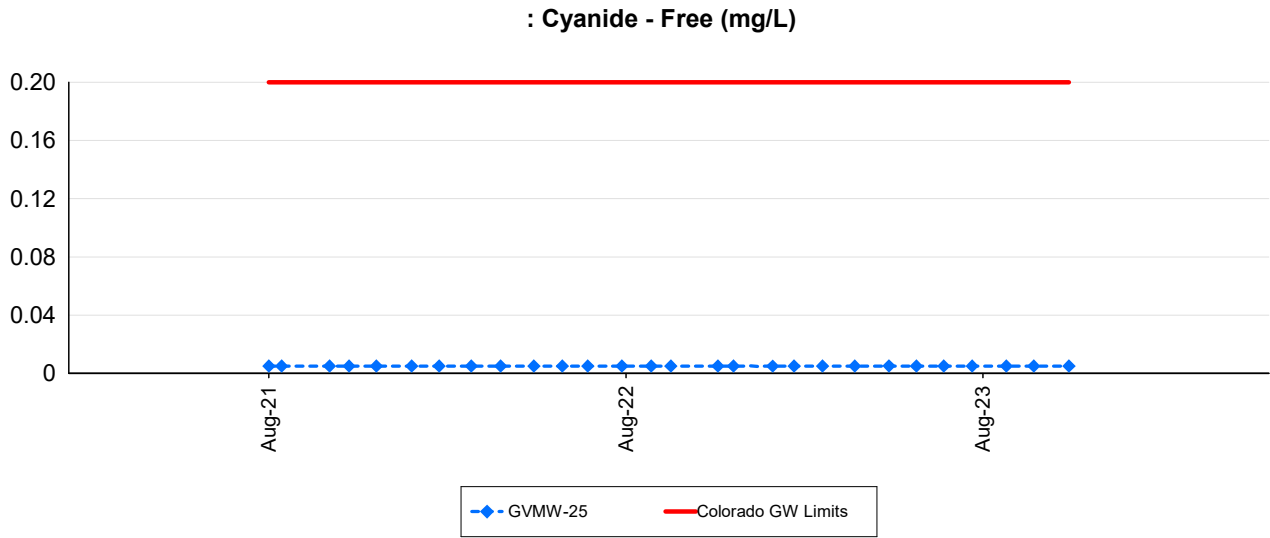
: Cadmium - Dissolved (mg/L)



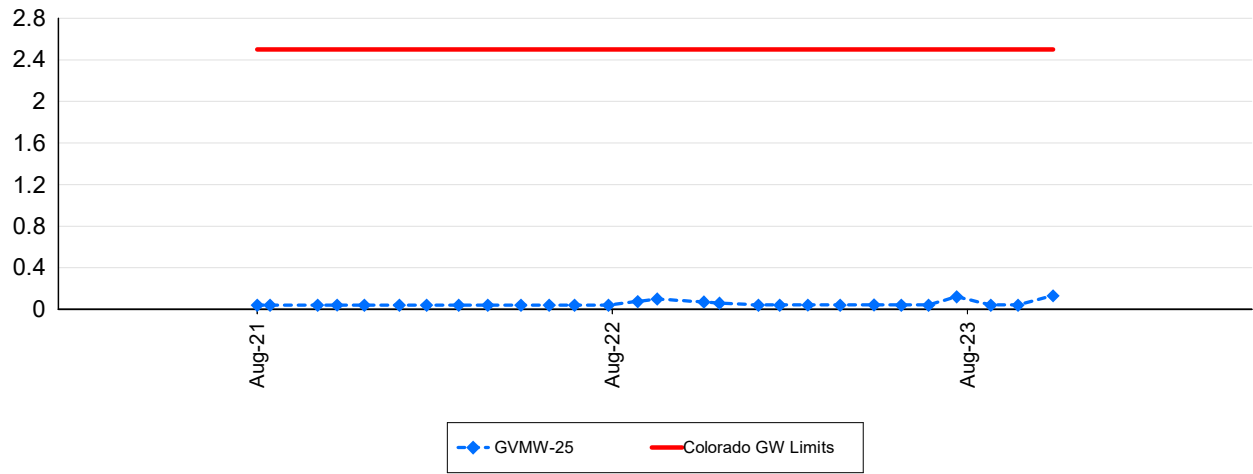
: Chloride - Total (mg/L)



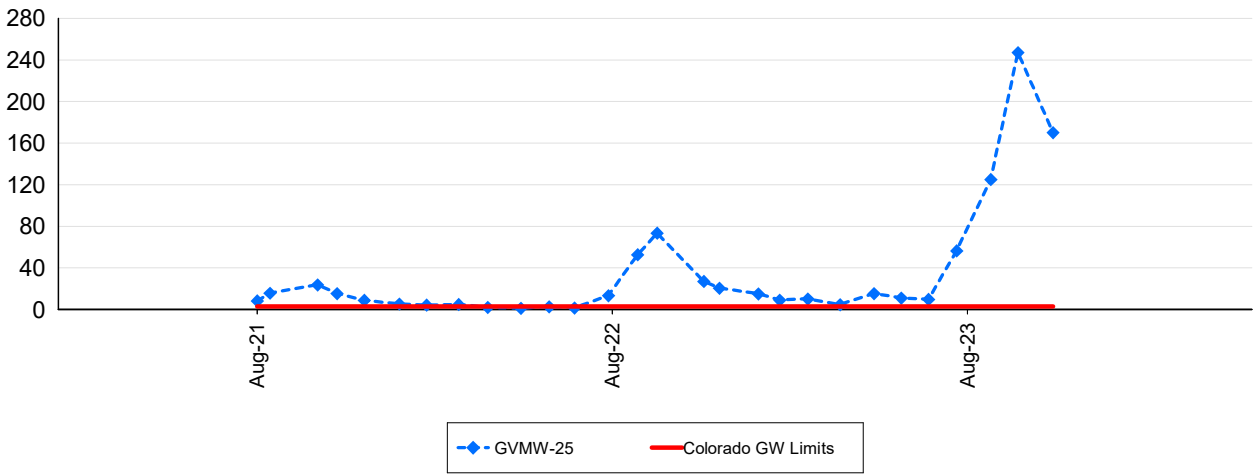




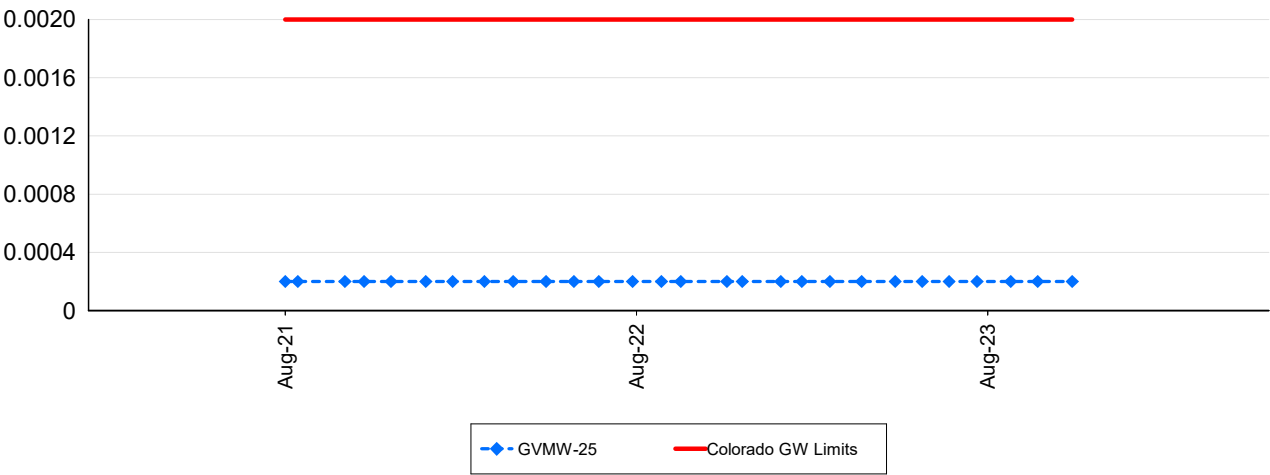
: Lithium - Dissolved (mg/L)



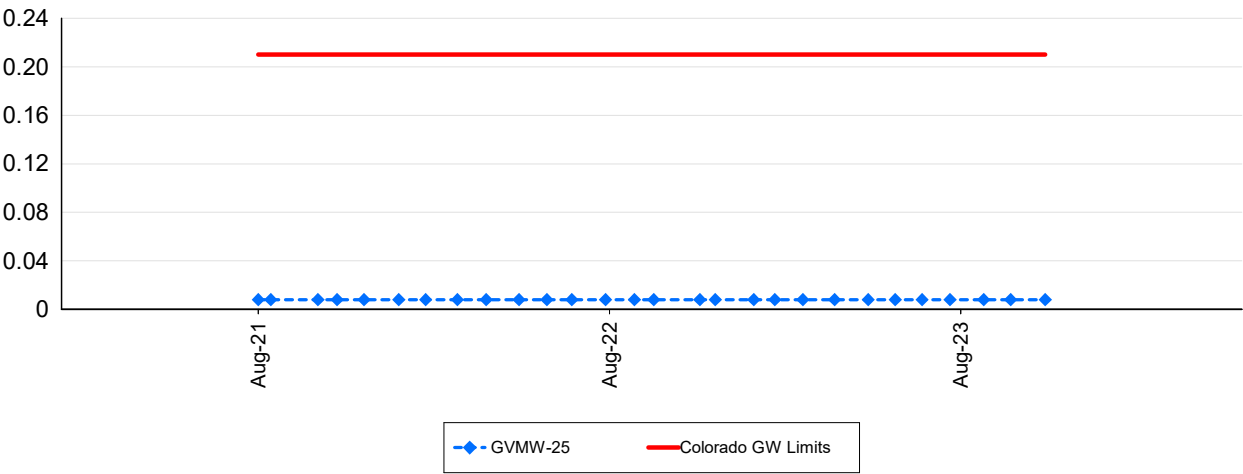
: Manganese - Dissolved (mg/L)



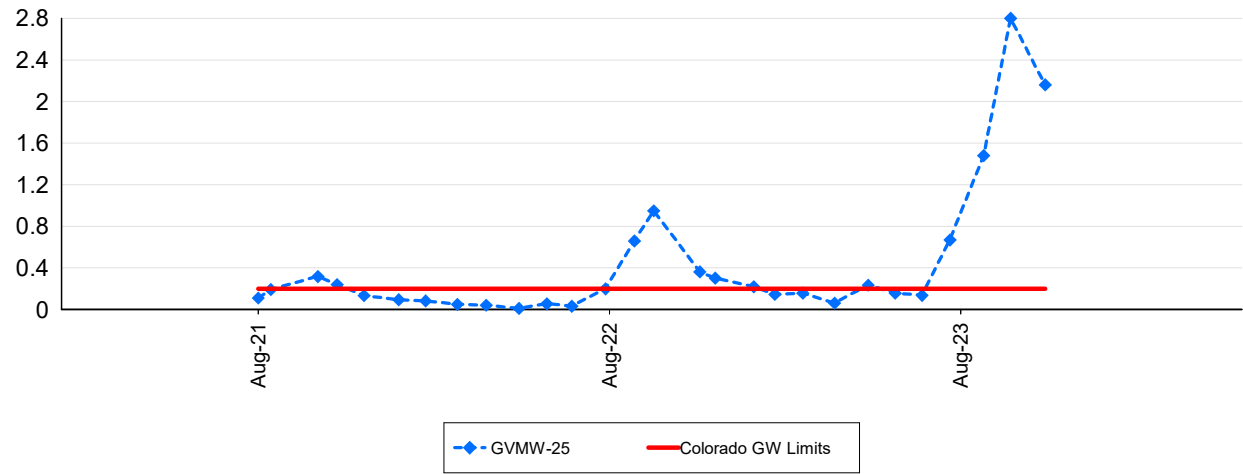
: Mercury - Dissolved (mg/L)



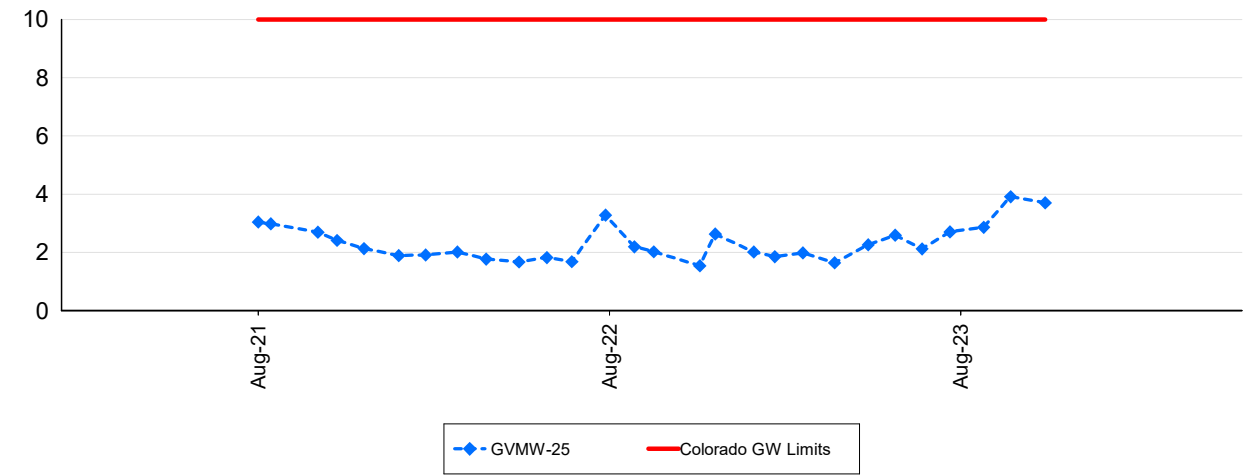
: Molybdenum - Dissolved (mg/L)



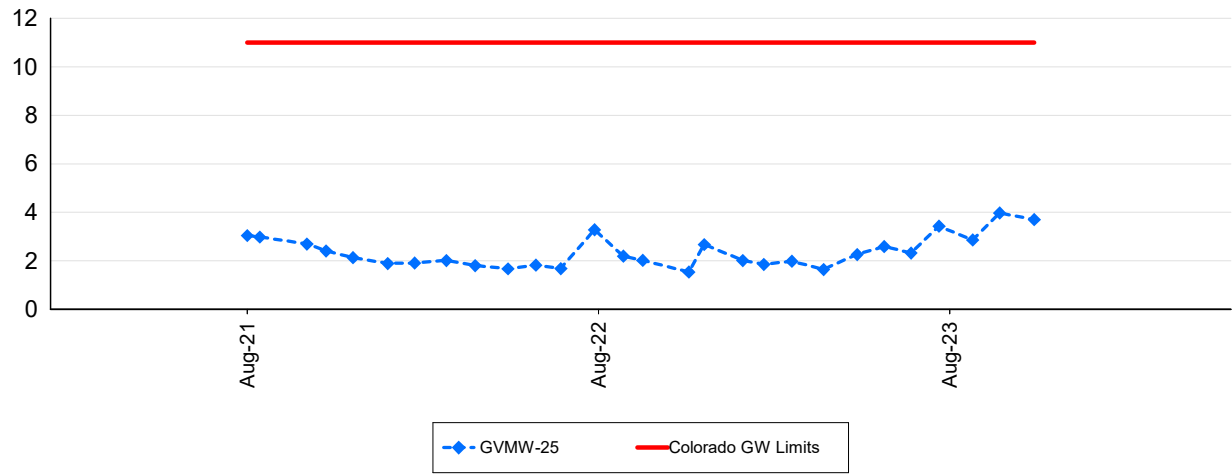
: Nickel - Dissolved (mg/L)



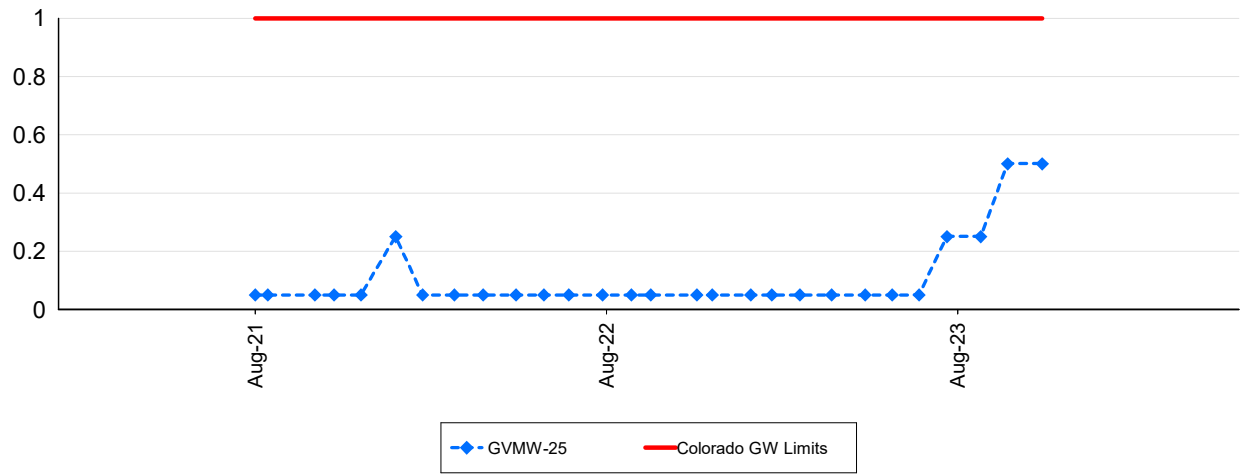
: Nitrate as Nitrogen (mg/L)



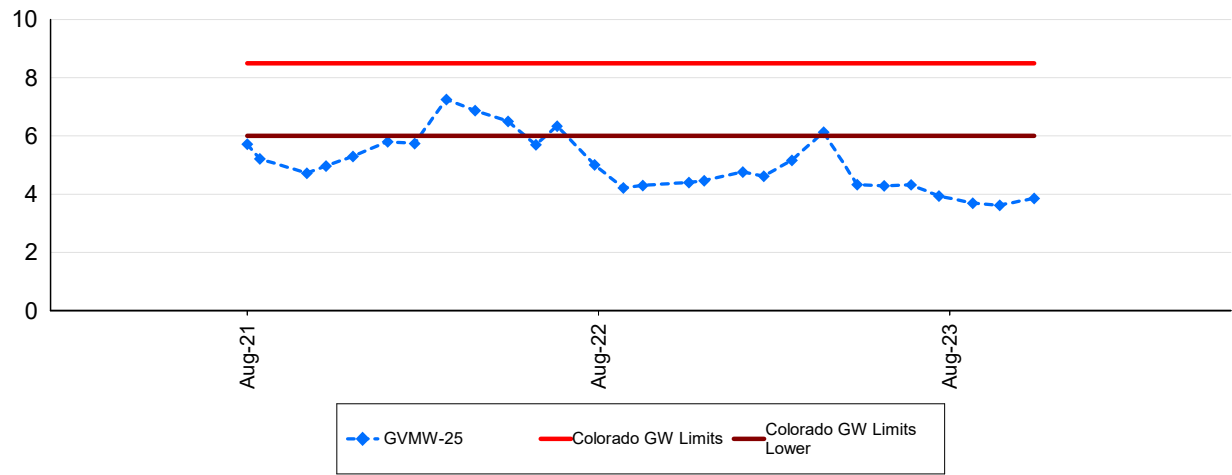
: Nitrite + Nitrate as Nitrogen (mg/L)

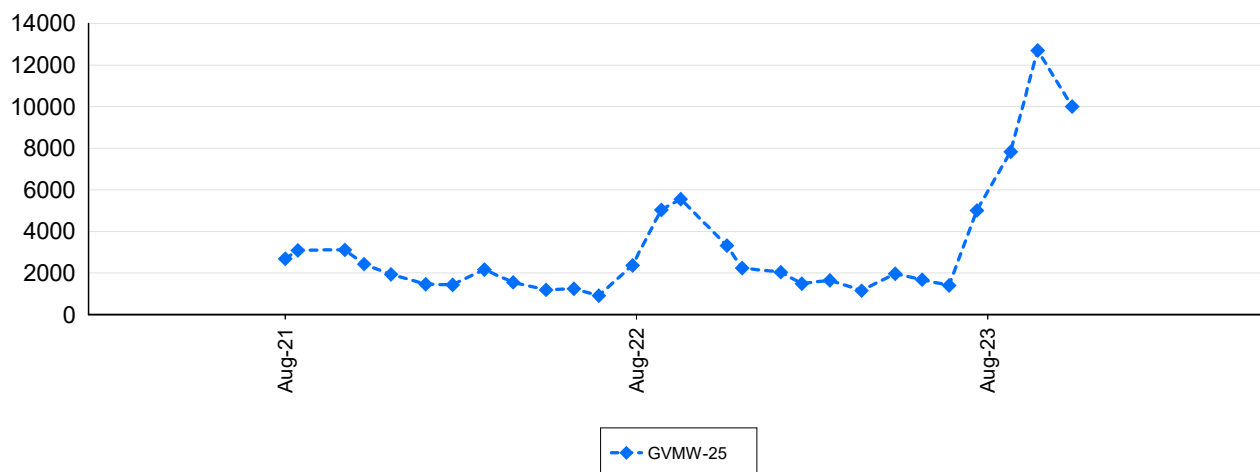


: Nitrite as Nitrogen (mg/L)

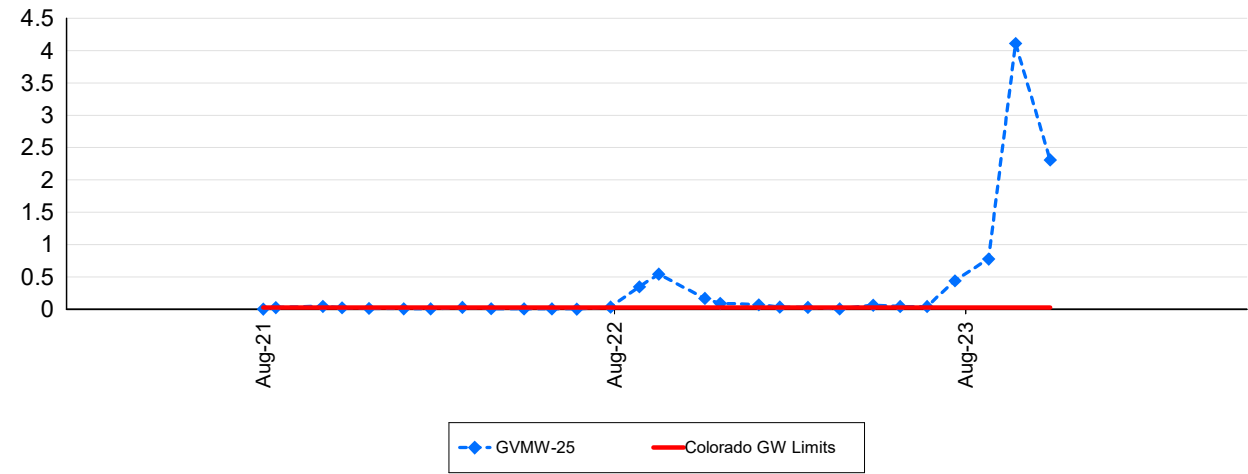


: pH Field (pH unit)

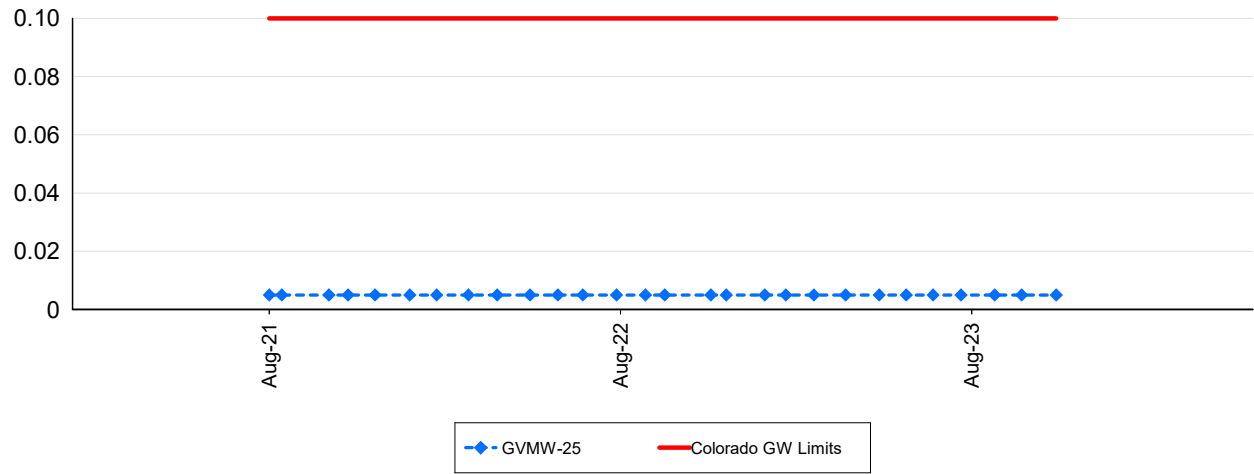




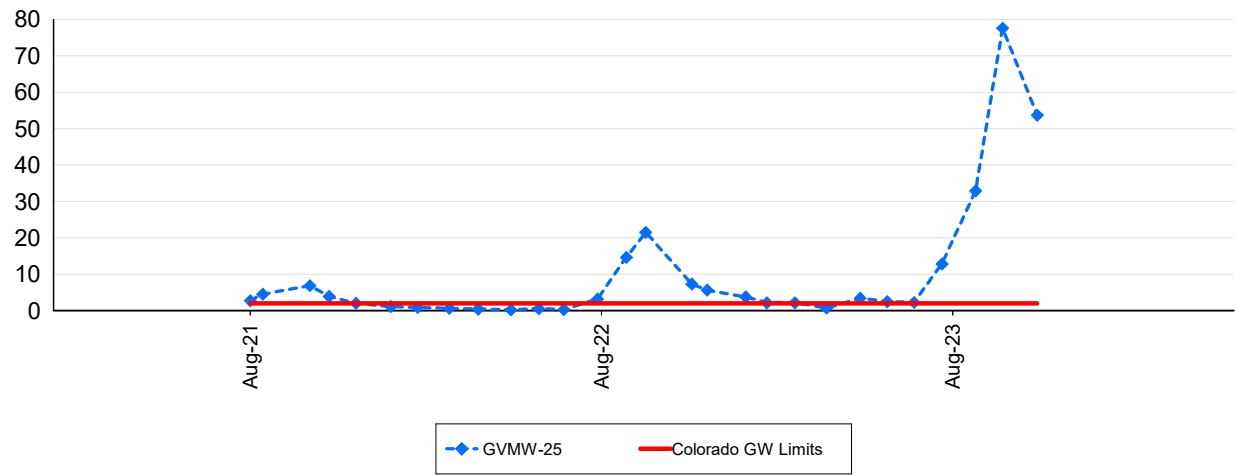
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-25**

Sampled: 15-Nov-23 11:17

Received: 16-Nov-23

Sampled By: PB

SVL Sample ID: **X3K0279-02 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	483	mg/L	1.00	0.690	10	X348073	JRR	11/30/23 12:24	D2
EPA 200.7	Magnesium	331	mg/L	5.00	0.900	10	X348073	JRR	11/30/23 12:24	D1
EPA 200.7	Potassium	7.69	mg/L	5.00	1.80	10	X348073	JRR	11/30/23 12:24	D1
SM 2340 B	Hardness (as CaCO3)	2650	mg/L	20.8	3.88		N/A		11/30/23 09:12	

Metals (Dissolved)

EPA 200.7	Aluminum	682	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:12	
EPA 200.7	Barium	0.0189	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:12	
EPA 200.7	Beryllium	0.458	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348005	JRR	11/30/23 09:12	
EPA 200.7	Cadmium	1.37	mg/L	0.0020	0.0016		X348005	JRR	11/30/23 09:12	
EPA 200.7	Calcium	514	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:12	
EPA 200.7	Chromium	0.101	mg/L	0.0060	0.0020		X348005	JRR	11/30/23 09:12	
EPA 200.7	Cobalt	1.63	mg/L	0.0060	0.0046		X348005	JRR	11/30/23 09:12	
EPA 200.7	Copper	2.84	mg/L	0.0100	0.0027		X348005	JRR	11/30/23 09:12	
EPA 200.7	Iron	4.33	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X348005	JRR	11/30/23 09:12	
EPA 200.7	Lithium	0.130	mg/L	0.040	0.025		X348005	JRR	11/30/23 09:12	
EPA 200.7	Magnesium	378	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:12	
EPA 200.7	Manganese	170	mg/L	0.0800	0.0340	10	X348005	JRR	11/30/23 10:17	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:12	
EPA 200.7	Nickel	2.16	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:12	
EPA 200.7	Potassium	7.60	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:12	
EPA 200.7	Sodium	46.5	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:12	
EPA 200.7	Zinc	53.7	mg/L	0.100	0.0540	10	X348005	JRR	11/30/23 10:17	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X346268	SMU	12/14/23 16:25	D1
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X346268	SMU	12/14/23 16:25	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X346268	SMU	12/14/23 16:25	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X346268	SMU	12/14/23 16:25	D1
EPA 200.8	Uranium	2.31	mg/L	0.0100	0.00520	100	X346268	SMU	12/14/23 16:25	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347144	MAC	11/30/23 13:16	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:41	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:02	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 12:21	
SM 2310 B	Acidity to pH 8.3	4630	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:33	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:33	
SM 2540 C	Total Diss. Solids	10000	mg/L	100			X347012	TJL	11/21/23 14:30	D2
SM 2540 D	Total Susp. Solids	31.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	pH @18.8°C	3.5	pH Units				X347089	MWD	11/22/23 13:33	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-25**SVL Sample ID: **X3K0279-02 (Ground Water)**

Sampled: 15-Nov-23 11:17

Received: 16-Nov-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	24.7	mg/L	2.00	0.22	10	X346200	KAG	11/16/23 15:10	D2
EPA 300.0	Fluoride	10.5	mg/L	1.00	0.170	10	X346200	KAG	11/16/23 15:10	D2
EPA 300.0	Nitrate as N	3.70	mg/L	0.500	0.130	10	X346200	KAG	11/16/23 15:10	
EPA 300.0	Nitrate+Nitrite as N	3.70	mg/L	1.00	0.440	10	X346200	KAG	11/16/23 15:10	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X346200	KAG	11/16/23 15:10	D1
EPA 300.0	Sulfate as SO4	7500	mg/L	75.0	45.0	250	X346200	KAG	11/16/23 15:27	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 146 meq/L

Anion Sum: 158 meq/L

C/A Balance: -3.79 %

Calculated TDS: 8459

TDS/cTDS: 1.18

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GV-06**

Sampled: 15-Nov-23 09:50

Received: 16-Nov-23

Sampled By: PB

SVL Sample ID: **X3K0279-01 (Surface Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X347139	MAC	11/28/23 16:01	U
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.191	mg/L	0.0020	0.0019		X348073	JRR	11/30/23 11:54	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348073	JRR	11/30/23 11:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348073	JRR	11/30/23 11:54	
EPA 200.7	Calcium	49.2	mg/L	0.100	0.069		X348073	JRR	11/30/23 11:54	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X348073	JRR	11/30/23 11:54	
EPA 200.7	Iron	4.81	mg/L	0.100	0.056		X348073	JRR	11/30/23 11:54	
EPA 200.7	Magnesium	12.3	mg/L	0.500	0.090		X348073	JRR	11/30/23 11:54	
EPA 200.7	Manganese	2.24	mg/L	0.0080	0.0034		X348073	JRR	11/30/23 11:54	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348073	JRR	11/30/23 11:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348073	JRR	11/30/23 11:54	
EPA 200.7	Phosphorus	0.144	mg/L	0.050	0.013		X348073	JRR	11/30/23 11:54	
EPA 200.7	Potassium	2.18	mg/L	0.50	0.18		X348073	JRR	11/30/23 11:54	
EPA 200.7	Sodium	15.6	mg/L	0.50	0.12		X348073	JRR	11/30/23 11:54	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348073	JRR	11/30/23 11:54	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Arsenic	0.00113	mg/L	0.00100	0.00021		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Copper	0.00076	mg/L	0.00040	0.00036		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Lead	0.00159	mg/L	0.00020	0.00014		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X348040	DWJ	12/04/23 10:58	
SM 2340 B	Hardness (as CaCO3)	176	mg/L	2.31	0.543		N/A		11/30/23 11:54	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:02	
EPA 200.7	Barium	0.142	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:02	
EPA 200.7	Calcium	51.3	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:02	
EPA 200.7	Iron	0.867	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:02	
EPA 200.7	Magnesium	12.8	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:02	
EPA 200.7	Manganese	1.59	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:02	
EPA 200.7	Potassium	2.06	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:02	
EPA 200.7	Sodium	16.5	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348005	JRR	11/30/23 09:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Uranium	0.00132	mg/L	0.000100	0.000052		X346268	DWJ	12/12/23 11:08	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 18

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GV-06**SVL Sample ID: **X3K0279-01 (Surface Water)**

Sampled: 15-Nov-23 09:50

Received: 16-Nov-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347144	MAC	11/30/23 13:14	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:39	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		11/30/23 11:54	
EPA 335.4	Cyanide (total)	0.0056	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:16	
EPA 350.1	Ammonia as N	0.055	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:00	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X348010	HJL	11/28/23 13:25	
Hach 8167	Total Chlorine	0.53	mg/L	0.020			X348215	MCM	12/01/23 12:10	H5
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 12:20	
SM 2310 B	Acidity to pH 8.3	-124	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	116	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	Bicarbonate	116	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2540 C	Total Diss. Solids	277	mg/L	10			X347012	TJL	11/21/23 14:30	
SM 2540 D	Total Susp. Solids	34.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	pH @19.2°C	7.6	pH Units				X347089	MWD	11/22/23 13:28	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X346088	NMS	11/17/23 11:05	
SM 4500-O-G	Dissolved Oxygen	3.4	mg/L	0.1			X347106	TJL	11/21/23 16:05	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X348019	DD	11/28/23 19:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		12/12/23 11:08	
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Anions by Ion Chromatography

EPA 300.0	Chloride	9.29	mg/L	0.20	0.02		X346200	KAG	11/16/23 14:36	
EPA 300.0	Fluoride	0.548	mg/L	0.100	0.017		X346200	KAG	11/16/23 14:36	
EPA 300.0	Nitrate as N	0.317	mg/L	0.050	0.013		X346200	KAG	11/16/23 14:36	
EPA 300.0	Nitrate+Nitrite as N	0.331	mg/L	0.100	0.044		X346200	KAG	11/16/23 14:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X346200	KAG	11/16/23 14:36	
EPA 300.0	Sulfate as SO4	88.8	mg/L	3.00	1.80	10	X346200	KAG	11/16/23 14:53	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.30 meq/L	Anion Sum: 4.48 meq/L	C/A Balance: -2.07 %	Calculated TDS: 251	TDS/cTDS: 1.11
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This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

Surface Water Calculations

GV-06		
Sample Date:		11/15/2023
Data for Calculations:		
pH	7.14	std units
Hardness	176	mg/L
Temperature	1.3	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	5.560200193	21.06160543
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Fluoride	---	---
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00002
Cadmium	0.00304	0.00110
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11776
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02289	0.01452
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11882	0.00463
Lead (T)	0.05000	---
Manganese	3.60432	1.99139
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.75539	0.08390
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00537	0.00020
Uranium	4.47916	2.79780
Zinc	0.26755	0.20264

GV-06 Results
Physical
7.14
1.3
Inorganic
0.055
<0.04
9.29
0.53
<0.005
0.548
0.317
<0.05
<0.05
88.8
0.144
Metals
<0.001
0.00113
<0.0001
<0.0001
<0.006
<0.011
<0.005
<0.0004
0.867
4.81
<0.0002
0.00159
1.59
<0.000093
<0.008
<0.01
<0.01
<0.001
<0.00008
0.00132
<0.01

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valleyTechnician: P. Barela

Static Water Level (DTW): _____

Date: 11/15/23Quarter: 4Well ID: GVMW-26AWell Depth (TD): 70 feet

Is well Dry? _____

If so Dry at: _____

Time	Depth to Water (ft.)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:06						Road is packed w/ snow Inaccessible

Sample Method: _____

Rate (gpm): _____

* Flow rate at stabilization (during sample collection)

Time Start: _____

Time End: _____

Final Parameters	Stabilization Guidance	Met?	Comments
pH		Y / N	
Conductivity		Y / N	
Temp@		Y / N	
DTW Stabilized		Y / N	
Final H2O level			

If Low Flow Method: Drawdown greater than 0.33 ft?

Y / N

If yes, required pump vol (gal):
following stabilization

Actual vol. pumped (gal)

* See Field Volume Guide

O/G visible:

Y / N
Y / N

Turbid?

Y / N

Equipment Decontaminated:

Decontamination procedure used: _____

Weather: clear, warmSignature: [Signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(\text{gal}) = 0.1632 * h(\text{ft})$ For 4" Diameter Well (gal): $V(\text{gal}) = 0.6528 * h(\text{ft})$ Other Diameter Well & Tubing Vol (gal): $V(\text{gal}) = 0.1632 * (r(\text{in}))^2 * h(\text{ft})$ Water Column Calculation: $h(\text{ft}) = \text{Total Depth (TD)}(\text{ft}) - \text{Depth to Water (DTW)}(\text{ft})$ Well Volume Purge Method: Three Well Volumes $\div 3 * V$

Conversions:

 $1 \text{ ft}^3 = 7.48 \text{ gal}$ $1 \text{ gal} = 3.785 \text{ L}$

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06Date: 11/15/23Technician: P. BarelaQuarter: 4

Time	pH (SU)	Cond. (uS/cm)	Temp. (°C)	Notes
9:50	7.14	414.7	1.3	

Sample Method:

Grab

Oil/Gas visible

[Y/N] ☒ N

Turbid

[Y/N] ☒ N slight debris

Clear

[Y/N] ☒ N

Weather:

clear, warm

Signature:



Comments:

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Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: ECOSA Seep-1Date: 11/15/23Technician: P. BarelaQuarter: 4

Time	pH (S.U.)	Cond. (µS/cm)	Temp. (°C)	Notes
9:08	/	/	/	Frozen

Sample
Method:Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

Clear, cold

Signature:



Comments:

Seep is Frozen

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosa Seep-2Date: 11/15/23Technician: P. BarciaQuarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:07	/	/	/	

Sample
Method:Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

Clear, cold

Signature:



Comments:

Seep is Frozen, unable to collect sample.

QA/QC



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-125**

Sampled: 15-Nov-23 11:17

Received: 16-Nov-23

Sampled By: PB

SVL Sample ID: **X3K0279-03 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	479	mg/L	1.00	0.690	10	X348073	JRR	11/30/23 12:01	D2,M4
EPA 200.7	Magnesium	329	mg/L	5.00	0.900	10	X348073	JRR	11/30/23 12:01	D1
EPA 200.7	Potassium	7.63	mg/L	5.00	1.80	10	X348073	JRR	11/30/23 12:01	D1
SM 2340 B	Hardness (as CaCO3)	2750	mg/L	4.56	2.09		N/A		11/30/23 12:01	

Metals (Dissolved)

EPA 200.7	Aluminum	682	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:16	
EPA 200.7	Barium	0.0186	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	Beryllium	0.461	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348005	JRR	11/30/23 09:16	
EPA 200.7	Cadmium	1.38	mg/L	0.0020	0.0016		X348005	JRR	11/30/23 09:16	
EPA 200.7	Calcium	509	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:16	
EPA 200.7	Chromium	0.102	mg/L	0.0060	0.0020		X348005	JRR	11/30/23 09:16	
EPA 200.7	Cobalt	1.63	mg/L	0.0060	0.0046		X348005	JRR	11/30/23 09:16	
EPA 200.7	Copper	2.81	mg/L	0.0100	0.0027		X348005	JRR	11/30/23 09:16	
EPA 200.7	Iron	4.28	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X348005	JRR	11/30/23 09:16	
EPA 200.7	Lithium	0.119	mg/L	0.040	0.025		X348005	JRR	11/30/23 09:16	
EPA 200.7	Magnesium	378	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:16	
EPA 200.7	Manganese	174	mg/L	0.0800	0.0340	10	X348005	JRR	11/30/23 10:20	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:16	
EPA 200.7	Nickel	2.17	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:16	
EPA 200.7	Potassium	7.57	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	Sodium	46.0	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	Zinc	56.7	mg/L	0.100	0.0540	10	X348005	JRR	11/30/23 10:20	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Uranium	2.32	mg/L	0.0100	0.00520	100	X346268	SMU	12/14/23 16:27	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347142	MAC	11/28/23 16:54	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 15:28	
SM 2310 B	Acidity to pH 8.3	4630	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2540 C	Total Diss. Solids	12900	mg/L	100			X347012	TJL	11/21/23 14:30	D2
SM 2540 D	Total Susp. Solids	29.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	pH @18.8°C	3.5	pH Units				X347089	MWD	11/22/23 13:39	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 18



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-125**SVL Sample ID: **X3K0279-03 (Ground Water)**

Sampled: 15-Nov-23 11:17

Received: 16-Nov-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	24.5	mg/L	2.00	0.22	10	X346200	KAG	11/16/23 16:39	D2
EPA 300.0	Fluoride	10.4	mg/L	1.00	0.170	10	X346200	KAG	11/16/23 16:39	D2
EPA 300.0	Nitrate as N	3.62	mg/L	0.500	0.130	10	X346200	KAG	11/16/23 16:39	
EPA 300.0	Nitrate+Nitrite as N	3.62	mg/L	1.00	0.440	10	X346200	KAG	11/16/23 16:39	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X346200	KAG	11/16/23 16:39	D1
EPA 300.0	Sulfate as SO4	7410	mg/L	75.0	45.0	250	X346200	KAG	11/16/23 16:56	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 146 meq/L

Anion Sum: 156 meq/L

C/A Balance: -3.32 %

Calculated TDS: 8362

TDS/cTDS: 1.54

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **RB-1115**

Sampled: 15-Nov-23 10:35

Received: 16-Nov-23

Sampled By: PB

SVL Sample ID: **X3K0279-04 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X348073	JRR	11/30/23 12:04	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X348073	JRR	11/30/23 12:04	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X348073	JRR	11/30/23 12:04	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		11/30/23 12:04	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:19	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:19	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348005	JRR	11/30/23 09:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X348005	JRR	11/30/23 09:19	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X348005	JRR	11/30/23 09:19	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X348005	JRR	11/30/23 09:19	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X348005	JRR	11/30/23 09:19	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:19	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X348005	JRR	11/30/23 09:19	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X348005	JRR	11/30/23 09:19	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:19	
EPA 200.7	Manganese	0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:19	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:19	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:19	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:19	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348005	JRR	11/30/23 09:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X346268	DWJ	12/12/23 11:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347142	MAC	11/28/23 16:56	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:23	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 15:30	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO ₃	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO ₃	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X347089	MWD	11/22/23 13:44	
SM 2540 C	Total Diss. Solids	138	mg/L	10			X347012	TJL	11/21/23 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	pH @19.1°C	5.7	pH Units				X347089	MWD	11/22/23 13:44	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 18



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3K0279**

Reported: 15-Dec-23 13:46

Client Sample ID: **RB-1115**SVL Sample ID: **X3K0279-04 (Ground Water)**

Sampled: 15-Nov-23 10:35

Received: 16-Nov-23

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X346200	KAG	11/16/23 13:45	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X346200	KAG	11/16/23 13:45	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X346200	KAG	11/16/23 13:45	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L

Anion Sum: 0.03 meq/L

C/A Balance: 8.57 %

Calculated TDS: 0

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

Map

Seep 2

Seep 1

GVMW-25

GV-06

GVMW 26B-30

GVMW 26A-70

Legend

- Seep Locations
- Ground Water
- Surface Water
- A13 Boundary

Newmont
CRIPPLE CREEK & VICTOR

NEWMONT

Cripple Creek and Victor Gold Mining Company

Grassy Valley Monthly Monitoring



Author: A. Matarrese

File: CC&V Grassy Monthly Map

Date: 09/2023

0 550 1,100 2,200 Feet